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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,449	06/01/2006	Peter Huntemann	291257US0PCT	2170
22850	7590	09/10/2010		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.				
1940 DUKE STREET				
ALEXANDRIA, VA 22314				
EXAMINER				
KASHNIKOW, ERIK				
ART UNIT		PAPER NUMBER		
1782				
NOTIFICATION DATE		DELIVERY MODE		
09/10/2010		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/581,449

Applicant(s)

HUNTEMANN ET AL.

Examiner

ERIK KASHNIKOV

Art Unit

1782

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/CD)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 11-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grimm et al. (6,387,447) in view of Sano et al. (JP 59-197466).
3. Grimm et al. teach coatings for offshore pipes (column 2 lines 5-10).
4. In regards to claims 11 and 13 Grimm et al. teach that the coating for the pipes comprises polyurethane formed from an isocyanate compound, hollow microbeads, as well as a polyol (OH number 36) and castor oil component (example 1).
5. In regards to claim 12 Grimm et al. teach the addition of diethylene glycol to the mixture for forming the polyurethane (example 1).
6. In regards to claim 15 Grimm et al. teach a coating thickness of 45mm for the polyurethane layer (column 4 line 25).
7. In regards to claim 16 Grimm et al. teach the process for forming the offshore pipe (column 3 line 31 to column 4 line 32).
8. While Grimm et al. teach the pipe and the process for making the pipe as discussed above they are silent regarding Applicant's desired concentrations and viscosity.

9. Sano et al. teach a coating for metal for use in an underwater environment (ABS) wherein the metal is coated by a polyurethane coating (column 1 lines 9-11).

10. In regards to claims 11 and 17-20 Sano et al. teach that the polymeric elastomers can be polyurethane (Constitution). Sano et al. teach that the polyurethane can be formed from a mixture that includes a polyisocyanate, castor oil and a polyol (Constitution). Sano et al. teaches that the castor oil be present at concentrations of 0-90 percent by weight which overlaps with applicant's ranges. While Sano et al. are silent with regards to the term polyetherpolyol, one of ordinary skill in the art would recognize that the combination of the at least 2 hydroxyl containing group and the two amino groups would result in a polyether polyol.

11. In regards to claim 21 as Grimm et al, and Sano et al. teach the same materials in the instantly claimed concentrations they would necessarily have the same hydrolytic stability. It is further noted that the Kitagawa et al. reference specifically mention that the pipes coated with the coating of their invention have improved properties when exposed to salt water (ABS).

12. In regards to claim 14 absent a showing of criticality with respect to "viscosity" (a result effective variable), it would have been obvious to a person of ordinary skill in the art at the time of the invention to adjust the "viscosity" through routine experimentation to values, including those presently claimed, in order to achieve "an optimal viscosity of the reactive mixture which allows for effective coating of the pipe". It has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

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13. One of ordinary skill in the art at the time of the invention would be motivated to modify the coated pipes of Grimm et al. with the polymer of Sano et al, because the pipe of Grimm et al. which are able to withstand pressures of 50 bar and temperatures above 120°C would benefit from excellent corrosionproofness and insulating properties of the coating of Sano et al (ABS).

Response to Arguments

1. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. It is further noted that the new secondary reference teaches a castor oil range that overlaps with Applicants instantly claimed range.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Maki (60-013855) which also teaches using polyetherpolyols and castor oil, but the translation of the abstract is silent with regards to concentrations.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIK KASHNIKOW whose telephone number is (571)270-3475. The examiner can normally be reached on Monday-Friday 7:30-5:00PM EST (Second Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Erik Kashnikow
Examiner
Art Unit 1782

/Rena L. Dye/
Supervisory Patent Examiner, Art Unit 1782